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LACOSOMIDÆ.

Lacosoma arizonicum, sp. nov.

♂ fore wing slightly incised at anal angle and roundedly produced at vein 3, the apex rounded, not *falcate*; hind wing rounded, somewhat sharply angled at anal angle, and slightly excised between the veins. Body flesh color, shaded with rosy pink on head and pectus; antennæ yellowish with long pectinations. Wings pale brown, the basal half shaded with rosy pink, sparsely irrorate with brown. An obscure discal dot on both wings, black, overlaid with white, and a narrow, very slightly flexuous outer common brown line. Expanse, 29 mm.

One ♂. Chiricahua Mts., Arizona (H. G. Hubbard). Type No. 3789, U. S. Nat. Mus.

PYROMORPHIDÆ.

Acoloithus rectarius, sp. nov.

Entirely black, the collar concolorous. Fore wings slightly bluish, hind wings greenish. Expanse, 13 mm.

One example, Chiricahua Mts., Arizona (H. G. Hubbard). Type No. 3788, U. S. Nat. Mus.

Possibly not distinct from *Harrisina mexicana* Schaus, which I have not seen.

NOTES AND DESCRIPTIONS OF OSCINIDÆ.

BY D. W. COQUILLET, Washington, D. C.

The insects comprising this family belong to the group of acalyptrate Diptera in which the auxiliary vein is imperfect or wanting, and the crossvein, which usually separates the discal from the second basal cell, is wanting, as is also the anal cell. The legs are short and rather robust. The only other family possessing these characters is the Ephydridæ, but in these the head is usually much broader than high, the aristæ of the antennæ are sometimes long pectinate on the upper side, the sides of the face are usually provided with bristles and the oral opening is often excessively large, none of which characters occur in the Oscinidæ.

In studying up the extensive series of specimens contained in the collection of the National Museum several new forms were met with, and it was found necessary to make a few corrections and additions to the genera given in Osten Sacken's catalogue. A large series of specimens of *Opetiophora straminea*, the type species of this genus, collected in Texas by Mr. E. A. Schwarz, shows that this genus is a synonym of

Hippelates. *Elachiptera* is the older name for *Crassiseta*, as *Mosillus* is of *Gymnopa*. The last named genus is not mentioned in Williston's recent manual. One European genus, *Eurina*, is now for the first time reported from this country, and a new genus, *Ceratobarys*, is erected for the *Hippelates eulophus* of Loew. The genus *Sigalæssa* of Loew, although placed by its author in the Asteidæ, and by Dr. Williston in the Drosophilidæ, may with propriety be admitted into the present family, from which it does not differ in any more important character than the shortened second longitudinal vein.

The genus *Elliponeura* is unknown to the writer in nature; all of the other genera reported from this country are represented in the National Museum collection.

Table of Genera.

1. Costal vein terminating at the tip of the third vein	2
Costal vein continued to the fourth vein	6
2. Hind crossvein present	3
Hind crossvein wanting	Elliponeura.
3. Posterior femora not thickened	4
Posterior femora unusually thick	Meromyza.
4. Front projecting in front of the eyes at least two-thirds the length of their horizontal diameter	5
Front not projecting more than one-half of the diameter of the eyes ..	Chlorops.
5. Third joint of antennæ at least twice as long as wide	Ectecephala.
Third joint only slightly longer than wide	Eurina.
6. Hind tibiæ each bearing a stout curved spur at tip of inner side	7
Hind tibiæ destitute of such spurs	8
7. Antennal arista unusually broad	Ceratobarys.
Antennal arista slender	Hippelates.
8. Tip of second vein less than the length of the hind crossvein beyond the first	Sigalæssa.
Tip of second vein several times the length of the hind crossvein beyond the first	9
9. Arista of antennæ not broadened	10
Arista unusually broadened	Elachiptera.
10. Last section of fourth vein three or more times as long as the penultimate section	11
Last section less than twice as long as the penultimate section	Mosillus.
11. Antennal arista bare or pubescent	12
Antennal arista short plumose	Gaurax.
12. Epistoma noticeably produced forward	Siphonella.
Epistoma not produced forward	Oscinis.

Descriptions of New Species.

Eurinaexilis, sp. nov.

Head yellow, the frontal triangle, antennæ, thickened base of the arista, the clypeus and occiput, except the sides and lower part of the latter, black; frontal

triangle polished, toward the sides striated, its lower end broad, rounded, reaching lower end of the front, sides of the latter bare; third joint of antennæ subquadrate, only slightly longer than broad. Thorax black, the sides and pleura yellow, the latter marked with four black spots, mesonotum coarsely punctured, scutellum yellow, convex. Abdomen black, the sides and venter yellow. Coxæ, femora and tibiæ reddish yellow, the middle of the hind tibiæ and all tarsi black. Halteres yellow. Wings grayish hyaline, third and fourth veins strongly diverging apically, hind crossvein twice its length from the small. Length, 4 to 5 mm.

Fourteen specimens, Beverly, Mass., June 4 and 20 (Edward Burgess), and Colorado (Carl F. Baker and H. K. Morrison). Type No. 3798, U. S. Nat. Museum.

***Chlorops aristalis*, sp. nov.**

Head yellow, the front triangle, third joint of antennæ, clypeus and occiput except the sides and lower part black, arista white, the thickened basal part yellow; frontal triangle polished, the sides converging to below the middle of the front, then as a narrow line extending to the lower edge of the front, sides of the latter bearing short, black, bristly hairs; third joint of antennæ one and one-half times as long as broad, concave above and convex below; palpi unusually large, projecting nearly one-third of their length beyond the anterior oral margin. Thorax yellow, the mesonotum subshining, marked with five nearly contiguous black vittæ, the pleura marked with three blackish spots; scutellum yellow, convex. Abdomen dark brown, the sides and venter yellow. Coxæ, femora and tibiæ yellow, the tarsi brownish. Halteres yellow. Wings hyaline, hind crossvein one and two thirds times its length from the small. Length, 3 to 4 mm.

Three specimens. North Carolina and southern Georgia. Collected by H. K. Morrison. Type No. 3799, U. S. Nat. Museum.

***Chlorops scabra*, sp. nov.**

Head yellow, the frontal triangle, second antennal joint and narrow upper edge of the third, the clypeus and occiput except the sides and lower part, black, arista brown, the thickened base black; frontal triangle polished, its sides converging to below middle of front, then nearly parallel, extending to lower end of front, sides of the latter bearing short black bristly hairs; third joint of antennæ orbicular, slightly shorter than wide. Thorax black, the sides and pleura yellow, one or two spots on the pleura, and the sternum largely black; mesonotum subshining, coarsely punctured; scutellum yellow, convex. Abdomen dark brown, the sides and venter yellow. Legs reddish yellow, a broad black band near middle of each hind tibia, apices of tarsi brown. Halteres yellow. Wings hyaline, hind crossvein over twice its length from the small. Length, 3 to 4 mm.

Two specimens. Oswego, N. Y. Collected July 17, 1896, by Professor Sheldon. Type No. 3800, U. S. Nat. Museum.

***Chlorops rubida*, sp. nov.**

Head yellow, an ocellar dot and narrow upper edge of the third antennal joint, black; frontal triangle polished, punctured, each puncture bearing a short hair, a me-

dian, longitudinal carina on lower half of the triangle sides of triangle converging to lower end of front, pointed at the apex, sides of front bearing short black bristly hairs; third joint of antennæ orbicular, slightly longer than wide. Thorax yellow, five dorsal vittæ and two spots on the pleura, reddish yellow; scutellum light yellow, flattened. Abdomen black, the ends, side; and venter yellow. Legs reddish yellow. Halteres light yellow. Wings hyaline, the hind crossvein slightly more than its length from the small. Length, 3 mm.

Two specimens. Colorado (H. K. Morrison), and Placer Co., Cal., in August (A. Koebele). Type No. 3801, U. S. Nat. Museum.

***Chlorops graminea*, sp. nov.**

Head yellow, an ocellar spot, one on lower part of the triangle, the third antennal joint, thickened base of arista and two vittæ on the occiput, black, sides of triangle partly or wholly brown, terminal portion of arista white; frontal triangle opaque, punctured, bare, the sides converging to lower end of front, the apex broadly rounded, sides of front bare; third joint of antennæ orbicular, slightly shorter than wide. Thorax yellow, opaque, five dorsal vittæ and three or four spots on the pleura, black-scutellum convex, yellow, toward the sides brown. Abdomen black, the narrow hind margin and sides of each segment, and middle of venter, yellow. Legs reddish yellow, apices of femora, both ends of the tibiæ, and bases of the tarsi, light yellow, Halteres yellow. Wings hyaline, hind crossvein slightly more than its length from the small. Length, 3 mm.

Two specimens, Lancaster, Cal. Bred by A. Koebele. Type No. 3802, U. S. Nat. Museum.

***Chlorops pullipes*, sp. nov.**

Head yellow, the frontal triangle, antennæ including the arista, the clypeus, palpi and occiput except the sides and lower part, brown or black; frontal triangle polished, the sides converging to lower end of front, sides of front bare; third antennal joint subquadrate, slightly longer than wide. Thorax polished, the dorsum black, sometimes marked with two yellow vittæ, pleura yellow, marked with four black spots; scutellum yellow, flattened. Abdomen black, hind margins of the fourth (usually) and fifth segments yellow. Legs brown or black, the trochanters, apices of femora, both ends of tibiæ, and bases of tarsi, yellow. Halteres yellow. Wings hyaline, hind crossvein slightly more than its length from the small. Length, 2 to 4 mm.

Sixteen specimens. Santa Fé, N. Mex. (T. D. A. Cockerell, in July and August), and Cañon City, Colo. (H. F. Wickham); other specimens from Colorado were collected by C. F. Baker and H. K. Morrison. Type No. 3803, U. S. Nat. Museum.

***Chlorops assimilis* Macq.** An examination of the type of *Siphonella obesa* Fitch proves that it is a synonym of the above mentioned species. *Chlorops trivialis* Loew and *C. bistriata* Walker belong in the same category.

Chlorops prolifica O. S. A study of co-types of this species received from Dr. J. A. Lintner, shows it to be a synonymy of *C. variceps* Loew.

Gaurax anchora Loew. This species has been re-described by Dr. Williston under the name of *Elachiptera dispar* in Forbush and Fernald's report on the Gypsy Moth, page 390.

Gaurax montanus, sp. nov.

Head black, the lower part of the front, antennæ, except the arista, face, cheeks, proboscis and palpi, yellow; frontal triangle polished, the sides convex, the lower end not reaching below lowest fourth of the front, sides of front opaque velvety; third joint of antennæ reniform, one and one-half times as broad as long, arista densely short plumose. Thorax polished black, a large yellow spot above the middle coxæ; scutellum semicircular, yellow, the extreme base brown. Abdomen black, the base yellow. Legs, including the coxæ, light yellow. Knob of halteres black, the stem yellow. Wings hyaline. Length, 2 mm.

Two specimens. Mt. Washington (Mrs. A. T. Slosson) and White Mts., N. H. (H. K. Morrison). Type No. 3804, U. S. Nat. Museum.

Hippelates capax, sp. nov.

Head black, the lower part of the front, the face, cheeks and palpi, yellow; frontal triangle subshining, the sides convex, the lower end not reaching below the lowest third of the front, sides of front except the lower part opaque velvety, each bearing a row of short bristles; third joint of antennæ circular, arista pubescent; vibrissæ rather large. Thorax, scutellum and abdomen black, subshining, the venter basally yellowish. Legs dark brown, bases of femora and of tibiæ, yellow. Knob of halteres bright yellow. Wings hyaline. Length, 3 mm.

Northern Illinois. A female specimen collected October 27, 1895, by Dr. W. A. Nason. Type No. 3805, U. S. Nat. Museum.

Hippelates bicolor, sp. nov.

Head black, lower part of the front, antennæ, except the extreme apex, and the arista, face, cheeks and palpi, yellow; frontal triangle polished, the sides concave, the apex reaching lower end of front, bristles on sides of front very short, vibrissæ wanting; third joint of antennæ reniform, one and one-half times as broad as long. Thorax and scutellum polished black, the latter semicircular, wider than long. Abdomen yellow, sometimes marked with a dorsal row of black spots and a lateral black vitta. Legs and halteres yellow. Wings hyaline. Length, 2 mm.

Lake Worth, Fla. Two specimens collected by Mrs. A. T. Slosson. Type No. 3806, U. S. Nat. Museum.

Siphonella inquilina, sp. nov.

Head black, the lower part of the front, antennæ, face, cheeks and palpi, yellow; frontal triangle polished, the sides convex, the apex not reaching below the lowest fourth of the front; third joint of antennæ orbicular, slightly wider than long; palpi projecting one third of its length beyond the oral margin. Thorax

black, polished, in front of the scutellum bearing numerous black, bristly hairs; scutellum black, subtriangular, along the sides bearing numerous black, bristly hairs and at the apex with a pair of bristles which are pressed together toward their tips. Abdomen black, the base yellow. Coxæ, femora and tibiæ black, the trochanters and tarsi yellow. Halteres yellow. Wings hyaline. Length, 2 mm.

Thirty-two specimens. Virginia; and St. Louis and Kirkwood, Mo. Type No. 3807, U. S. Nat. Museum.

***Oscinis virgata*, sp. nov.**

Head yellow, an ocellar dot, which sometimes extends over the entire frontal triangle, the occiput except the lower edge, the antennæ including the arista, the clypeus and apex of proboscis, black; frontal triangle polished, reaching only slightly below the middle of the front, the latter bearing numerous short, black bristles; third joint of antennæ suborbicular, slightly wider than long. Thorax subshining, yellow, the mesonotum marked with three black vittæ, a brown spot beneath the humeri and another beneath the wing; metanotum in the middle black; scutellum yellow, semicircular. Abdomen black, the venter yellow. Coxæ, femora and tibiæ yellow, outer side of front femora, and the front and hind tibia, tinged with brown; tarsi brown. Halteres yellow. Wings hyaline. Length, 3 mm. Colorado.

A specimen of each sex collected by Carl F. Baker. Type No. 3808, U. S. Nat. Museum.

***Oscinis pectoralis*, sp. nov.**

Head yellow, the frontal triangle, occiput except the lower edge, and the antennæ including the arista, black; frontal triangle polished, reaching only slightly below the middle of the front, the latter bearing black bristly hairs; third joint of antennæ nearly circular, slightly wider than long. Mesonotum subshining grayish black, the sides and pleura reddish yellow, a brown spot beneath the humerus and another near middle of pleura; scutellum grayish black, semicircular; metanotum black. Abdomen black, the base and venter yellow. Coxæ, femora and tibiæ yellow, the tarsi brown. Wings hyaline. Length, 3 mm.

Franconia, N. H. A female specimen collected by Mrs. A. T. Slosson. Type No. 3809, U. S. Nat. Museum.

***Sigalœssa flaveola*, sp. nov.**

Yellow, dorsum of thorax and of abdomen reddish yellow, the antennal arista and anterior oral margin black, a vitta on middle of occiput, a spot on front end of thorax, one above each humerus, a vitta on upper part of pleura and two spots on the lower part, brown; knob of halteres brown. Frontal triangle very small, scarcely exceeding the ocelli; third joint of antennæ orbicular, as long as wide. Wings hyaline, third and fourth wings strongly converging toward their tips, apex of second vein only slightly beyond the hind crossvein. Length, 1.5 to 2 mm.

Eight specimens. Franconia, N. H., Biscayne Bay, Fla. (Mrs. A. T. Slosson), and Washington, D. C. The specimens from the latter locality were collected on windows by the writer during May and July. Type No. 3810, U. S. Nat. Museum.